

# PATENT ABSTRACTS OF JAPAN

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## (54) HIGH-FREQUENCY HEATING SYSTEM

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a high-frequency heating system intentionally and variably controlling the microwave distribution generated in the microwave space and urging the uniformity of the heating of a heated object.

**SOLUTION:** This high-frequency heating system is provided with an opening section 16 formed on the left side face 12 forming a microwave space 10, a groove section 18 connected to the opening section 16, an impedance variable means 20 provided in the groove section 18, a support angle judging means judging the arranged position of the wide face of the impedance variable means 18 in the depth direction of the groove section 18, and microwave detecting means 27, 28. The impedance variable means 20 is rotatively controlled based on the signals of the microwave detecting means 27, 28, the microwave distribution in the microwave space is changed, and the heating of a heated object is uniformized.

